

the shuttle

A PUBLICATION OF THE UNIVERSITY OF MASSACHUSETTS LOWELL

In the Land of Bobble, Kerouac Is King

When it comes to unforgettable gimmicks, the UMass Lowell English Department hit the "Jack"-pot.

The Kerouac bobblehead doll has become an international knick-knack phenomenon. With its unique blend of kitsch meets cool, the plastic poet's meteoric rise to celebrity has been downright mind-bobbling."

"We never expected anything like this," explains English Professor and Director of the Kerouac Conference on Beat Literature Hilary Holladay. "The doll's popularity is astonishing."

Holladay and Lowell Spinners Marketing Director John Goode cooked up the idea as a way to publicize the annual Lowell Celebrates Kerouac! Festival. They declared August 21 Kerouac Night at the ballpark and announced that bobbleheads would go to the first 1,000 fans through the gate.

Almost immediately, the doll's oversized, wobbling head was gracing the pages of the *Boston Globe*, the *New York Times*, then *Sports Illustrated*. Soon, television personalities from CNN to ESPN were blathering about the Beat era tchotchke.

Heck, Kerouac was renowned for his trademark "spontaneous prose." But he'd never seen anything this spontaneous.

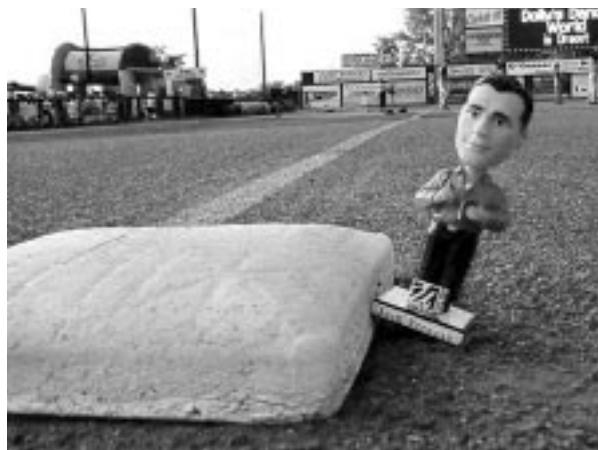
"We were getting letters and calls from everywhere, people begging to get a doll, pleading their case," says Holladay. "The Spinners' office put up a world map where they'd stick a tack every time they got a call."

Holladay and the Spinners were stunned. They ordered 250 more dolls and decided to sell

them on the Spinners' Website for \$20 each, with a portion of the proceeds benefiting the University's Kerouac scholarship program.

The dolls went up for sale on a Friday afternoon. By Saturday morning, they had 750 orders.

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▲ The Kerouac bobblehead doll "beats" the throw, sliding safely into third base at LeLacheur Park. (photo courtesy of ESPN.com)

Wegman Named Dean of Expanded College of Health

Dr. David H. Wegman has been appointed dean of the reconfigured College of Health Professions, which has the proposed name the School of Health and Environment. The name has been sent to the Faculty Senate for review.

The school has been reorganized to add the Department of Work Environment to the departments of Nursing, Physical Therapy and Clinical Laboratory Sciences, and has been charged to develop an undergraduate program in Environmental Health. "This grouping of departments builds on the strong record of the college by expanding and

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Grad School of Ed Moves to South — Next Stop, Lawrence Mills

Four pairs of scissors snapped the red, white and blue ribbon across the doors to the new Graduate School of Education officially marking the move to the fifth floor of O'Leary Library. Dean Donald Pierson; Prof. Judith Boccia, director of the Center for Field Services and Studies (CFSS); Patricia Noreau, director of the libraries; and Joseph Caufield, assistant to the provost, welcomed students and colleagues to explore the renovated space.

The new location includes the GSE faculty offices, CFSS, a faculty/student lounge, two multimedia classrooms, a computer room and a new information kiosk. And the school brought a piece of UML West to O'Leary — a garden that was in Upham Hall inspired by former Dean Virginia Biggs.

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▲ Interim Provost John Wooding tries out the new kiosk in the lobby of the Graduate School of Education's new location on the fifth floor of O'Leary Library as GSE faculty look on. The kiosk includes a floor map and semester course information.

Ting Assumes the Reins of College of Engineering

When Prof. John Ting was asked, during an interview for the engineering dean's job, what his primary goal would be for the college, his aim was modest: "Survival."

"Survival is good in this climate. If you come out in a few years time with your programs intact, with the quality you're hoping for, that's a pretty good goal all by itself," said Ting, who was promoted last spring from the Civil and Environmental Engineering Department's chairman to engineering dean. He replaces Krishna Vedula, who stepped down after eight years to become a program director for the National Science Foundation.

However, by all accounts, Ting is just the person to make sure the college thrives, as well as survives. Even though engineering, and the University as a whole, is grappling with budget cuts, faculty retirements and hiring freezes, Ting believes the current climate offers vast opportunities as well.

"I feel that we are faced with some incredible challenges — mainly fiscal ones brought on by the state budget crisis — as well as issues in ensuring a supply of well-trained, socially responsible engineers to meet the needs and demands of the regional and global economy," he says.

"But now there is a tremendous opportunity to shape what's happening. You have to really think carefully about what is really important and how to achieve your goals the right way," he adds.

Acknowledging that Vedula leaves "incredibly big shoes to fill," Ting is looking forward to building upon established programs, with a continued focus on K-12 outreach, the develop

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Take Note

Open House and Book Sale Set for Sept. 19 at O'Leary Library

O'Leary Library will be conducting an Open House and book sale on Friday, Sept. 19, beginning at 9 a.m. The Open House will be held until 5 p.m., while the book sale ends at 4 p.m.

The Friends of the UMass Lowell Libraries, which is sponsoring the event, invites the University community to tour the renovated library's "new look," featuring "before and after" pictures. Visitors also may tour the new home of the Graduate School of Education and the Center for Field Services and Studies, and view the Lowell Historical Society's exhibit "Classroom in the City."

Light refreshments will be served.

IRB Must Review All Research Involving Human Subjects

Any research project involving human subjects, including recruitment activities for such studies, whether funded or not and whether on or off campus, that is conducted by faculty, staff, students or others, must be reviewed by the Institutional Review Board (IRB), according to IRB Chair Stephen Moses.

Copies of the current IRB Manual of Instructions and Procedures for Research Projects Involving Human Subjects are available at the IRB Web site: <http://irb.uml.edu> or by contacting the IRB office at ext. 4134.

Specific questions regarding research projects involving human subjects should be directed to Moses at that extension.

Open House '03 Scheduled Oct. 26

Save the date: Sunday, Oct. 26 at 9 a.m., the campus will hold Open House '03 for prospective students. Widespread faculty and staff participation has made the past three years' events outstanding. Plan to volunteer (watch for e-mails with specific opportunities) so you can be part of the success of Open House '03.

Deans and department chairs: NOW is the time to check your brochures and fliers. Any area needing materials updated or reprinted for Open House '03 must contact Publications at ext. 3223 immediately.

Robot-Assisted Search and Rescue at the World Trade Center

Mark Micire was a graduate student in the Perceptual Robotics Lab at the University of South Florida when the World Trade Center towers were struck. He spent the next 11 days in New York with a team that used search-and-rescue robots to find trapped victims, helping the fire department and other emergency response teams. The shape-shifting robots could enter spaces too small or dangerous for people or dogs.

Micire will speak on Thursday, Sept. 25, in Olsen Hall 311, 3-4 p.m. He will describe the search and review the lessons learned in this first known robot-assisted search and rescue. Micire has since co-founded American Standard Robotics to manufacture robots specifically designed for the search and rescue community.

Year of the Home Fair Makes Connections

The problems are challenging. Seventeen million Americans have asthma, including nearly a quarter of all children in urban classrooms, and indoor air quality is a major contributor. Seventy percent of households use at least one pesticide indoors and track in more from the garden. And half of all the housing in Lowell was built before 1950, years before lead paint use was discontinued in 1978.

The Year of the Home Fair, though, was all about optimism.

The fair celebrated the partnership of UMass Lowell's Center for Family, Work and Community (CFWC) with the Lowell Health Department in a major "healthy homes" project to increase awareness of and improve coordination around issues of environmental health in the home.

Community groups displayed posters, project partners added "bricks" to a house model and local heroes of environmental effort received awards, as the fair featured a variety of events and speakers. Two panel discussions helped to elucidate the issues and speakers included Eugene Benoit, Indoor Environments Program of the Environmental Protection Agency, and Frank Singleton, director, Lowell Health Department.



▲ Frank Singleton, director, Lowell Health Department, was one of the speakers at the Year of the Home Fair, a celebration of the healthy homes collaboration of UMass Lowell's Center for Family, Work and Community and the Lowell Health Department.

Singleton drew on history to point out the increase in modern life expectancy owes more to environmental improvements than to medicine.

"Not so long ago, refrigeration and sanitation were a luxury," said Singleton. "It's still true that the house is extremely important and its conditions affect your health."

Kerouac Conference Showcases Beat Poetry

The Jack Kerouac Conference on Beat Literature, formerly the Beat Attitudes Conference, will be held on campus Oct. 2 and 3.

This year the conference will focus on Beat poetry. According to the conference coordinator, Prof. Hilary Holladay, English, the Beat Movement was largely a poetry movement, and its legacy strongly impacts poets of today.

"Although most people think of Kerouac as a novelist," says Holladay, "he wrote countless poems and considered himself a poet equal in talent to Allen Ginsberg."

In addition to the numerous papers to be presented on this topic, there will also be a special presentation on Kerouac's 120-foot scroll manuscript of *On the Road*. Jim Canary, curator at Indiana University's Lilly Library, and Matt Theado, a Kerouac scholar at Gardner-Webb University, will present their findings about the history and composition of this fascinating document, which sold at auction a few years ago for \$2.4 million. Their presentation will feature a display of a manual typewriter similar to the one Kerouac used.



"Snapshot Poetics," an exhibit of photographs by Allen Ginsberg in the University Gallery, will open during the conference.

"The University Gallery curator, Michele Auger, deserves a lot of credit for lining up this wonderful exhibition of Ginsberg's photos," says Holladay. "The exhibit adds an important visual dimension to the Kerouac Conference and suggests the multidisciplinary nature of the Beat Movement."

Conference sponsors include the Estate of Jack and Stella Kerouac (John Sampas, literary executor), the College of Arts and Sciences and the English and Art departments. Holladay has also partnered with organizers of the Lowell Celebrates Kerouac! festival held simultaneously with the conference.

For more information, check the Web site at www.uml.edu/KerouacConference or contact Prof. Hilary Holladay at Hilary_Holladay@uml.edu. For information on the Lowell Celebrates Kerouac! Festival, go to lkorg.tripod.com or call 1-877-KEROUAC.



Rep. Bill Greene Gets Green Chemistry Lesson at Institute

Co-chair of the Legislature's Natural Resources Committee Rep. Bill Greene, center, recently toured the Toxics Use Reduction Institute with, from left, Anne Berlin Blackman, the Institute's education and training associate; Committee Chief of Staff Joe Sgroi; Ken Geiser, Institute director; and Committee Legislative Director Korrin Nygren. Greene, of Billerica, helped spearhead an effort to reinstate funding for the Institute this past summer.

New President Will Emphasize Academic Excellence and Affordability

Dr. Jack Wilson, the recently appointed interim president of the UMass system, says he will concentrate on "friend raising and fund raising as we strengthen our ties to the community, the legislature, the business community, the governor, the alumni and other stakeholders."

"With enrollment growing on all five campuses, students and families across the Commonwealth are offering UMass the ultimate vote of confidence. We will work tirelessly to preserve that confidence by providing academic excellence and maintaining affordability."

The University Board of Trustees named Wilson interim president last month following the resignation of William M. Bulger, who had led the five-campus system for more than seven years. Wilson, who had been vice president for Academic Affairs, was the founding chief executive officer of UMassOnline, the highly successful Web-based learning initiative.

A physicist of national distinction, he came to the University after 11 years at Rensselaer Polytechnic Institute, where he was the J. Erik Jonsson '22 Distinguished Professor

of Physics, Engineering Science, Information Technology and Management and where he was founding director of the Anderson Center for Innovation in Undergraduate Education and co-director of the Severino Center for Technological Entrepreneurship.

He also served as dean and interim provost at RPI.

Board Chair Grace K. Fey said UMass trustees were "convinced that Jack Wilson will be able to provide strong, effective leadership in the months ahead."

"The University of Massachusetts is coping with significant challenges arising from the fiscal and economic crisis that has gripped the state for the past two years. We believe that Dr. Wilson has the vision and managerial skill needed to lead the University through what we hope is the final stage of this very difficult period."

"Thanks to President Bulger, the University's performance in a number of key revenue-producing areas—fund raising, research funding, licensing income—has soared, leaving us with a much stronger foundation," she said.

Legislature Backs Toxics Use Reduction Institute

It was a drama worthy of J.K. Rowling, but the Toxics Use Reduction Institute (TURI) had no magic wand to save the day—just cold, hard facts showing that Massachusetts is a cleaner state because of the Institute's years of effort. So when the Institute's budget was vetoed June 30, those facts were shared with area legislators who, in turn, convinced their colleagues to save it.

With the start of the fiscal year beginning July 1, the Institute's budget was reduced to zero overnight. Yet that could not keep the staff from reporting to work, and Institute Director Ken Geiser and a few other staffers from reporting to the State House, as the new fiscal year ticked on with no TURI funding.

Geiser kept vigil on Beacon Hill, as the House spent a full week on votes overriding the Governor's vetoed items. The TURI item came up—and passed overwhelmingly—as the second week of voting began. When it happened, Geiser said, "It is a vote of confidence in the 12 years of work with the businesses and citizens of Massachusetts to create a safer and cleaner environment."

"The Institute allows people throughout the Commonwealth that basic, fundamental opportunity to breathe clean air and drink clean water," said Rep. Thomas Golden of Lowell, who spearheaded the override effort in the House. "The people at the Institute do wonderful work. They help businesses help themselves."

His colleagues on both sides of the partisan divide agreed, with a vote of 129 to 18 to reinstate funds for TURI. More than 20 area legislators signed onto a letter supporting the Institute. The Senate similarly voted to restore funding, with Sens. Steven C. Panagiotakos of Lowell and Pamela Resor of Acton leading the effort in that branch.

In a thank you letter to legislators, Chancellor William T. Hogan wrote, "At UMass Lowell, the Institute is at the core of our mission-related work: promoting development that is sustainable over the long term. The Institute has led the way, infusing its vision into academic disciplines and spawning research centers that are shaped by the values that underlie sustainable production."

Discovery Series Kicks Off 17th Season with Reprise of '02 Smash

The Shangri-La Acrobats, the show for all ages that played last year to sold-out audiences, is back by popular demand and will kick off the fall season of the Discovery Series with a two-show billing at Durgin Hall Oct. 5.

A huge success last year in Lowell, Shangri-La features sensational acrobatics, martial arts displays, astonishing feats of balance, authentic music and much more. Under the direction of the legendary Hai family, it is a reflection of the years of training and discipline so much a part of this ancient art. Finally, like all the shows booked and performed as part of the Discovery Series, it is a performance equally suited for all members of the family.

"Parents are looking for activities they can enjoy with their kids that are affordable, fun and are alternatives to sitting in front of a computer or TV screen," says Christine Brown, director for the Center for the Arts at UMass Lowell, in announcing the kick-off to the 17th season of the popular entertainment series. "We stress that there are real, live people on the stage, just wowing the audience with creativity, imagination and skill. It helps kids learn the difference between live performance and TV, movies and videotapes."

The performances that follow Shangri-La call on a mix of arts and skills. On Nov. 2, the Series will offer "The Star Keeper," described as "the Cirque de Soleil" of puppet shows from Montreal, an award-winning production featuring traditional string marionettes as well as shadow and bunraku-style puppets and suitable for audiences ages 4 to 10.

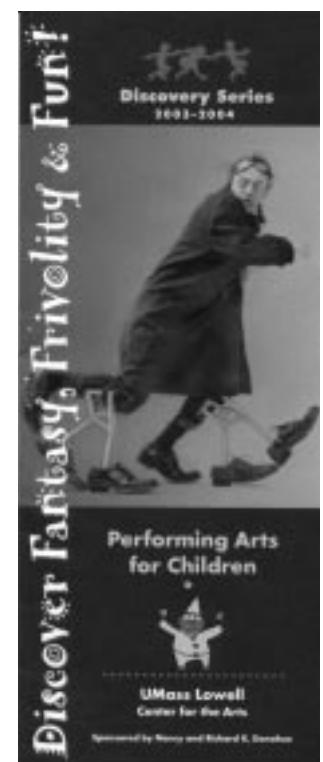
On Dec. 7 the Gizmo Guys from New York City will take to the stage with their world-class juggling routines and quick-witted repartee, a show that will play for all ages. Following that, on March 7, Thomas Kubinek: Certified Lunatic and Master of the Impossible will perform an act impossible to pigeonhole. The Louisville *Courier Journal* described it as "a humor based on artful dodges and poetic bamboozlements performed with feline virtuosity and devilish wit." This show is best enjoyed by ages six and up.

On April 7 Scrap Arts Music from Vancouver brings cutting-edge percussion performed on futuristic sculpture-on-wheels to the stage, another show that should appeal to ages six and up.

The season will close May 4 with a production of Theatreworks USA's *Charlotte's Web* the age-old classic by E.B. White, suitable for audiences four and up, about a friendship between a spider and a pig.

All performances will be at both 2 and 4 p.m., with the exception of *Charlotte's Web*, which will show only at 2 p.m.. All will run roughly an hour, with no intermission.

Durgin Hall is at 35 Wilder St., UML South. For more information or to order tickets by phone, call the box office at (978)-934-4444 from 10 a.m. to 3 p.m., Monday through Friday.



▲ The Shangri-La Acrobats will open the Discovery Series on Oct. 5. Call the Center for the Arts Box Office for ticket information, ext. 4444.

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UMass Lowell Folks Join in Lowell Festival

UMass Lowell once again was a major partner of the Lowell Folk Festival — the largest free event of its kind in the country which annually attracts 200,000 visitors to the city. The University donated volunteers, equipment and other resources to the July weekend of traditional music, craft demonstrations, street parades, dance parties and ethnic foods on six outdoor stages. As part of its commitment, UMass Lowell hosted a booth at Boarding House Park, at which brochures, flyers and other materials were distributed to passersby.



▲ Marie Frank, left, of cultural studies, and Education Prof. Judy Davidson display the free UMass Lowell visors that were given to spectators interested in blocking some of the hot summer rays. Other UMass Lowell volunteers who staffed the booth included Rick Sherburne, Donna Spellissy, Patti McCafferty, Chris Dunlap and Paul Marion, all from communications; Karen Anderson of continuing studies; Nuclear Engineering Prof. Gil Brown; and Special Assistant to the Provost Alan Graubard.

◀ Clare Dube, left, and Pauline Robidoux, center, both of continuing studies, and Sandra Seitz from communications greet visitors to the UMass Lowell booth.

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Ting Assumes the Reins of College of Engineering

ment of new knowledge and improving the freshman experience. He also hopes to spearhead some new initiatives, such as a civil engineering proposal to work with developing countries to help them create a sustainable infrastructure. And, he will not leave the classroom entirely, as he is teaching a civil engineering statistics course this fall.

Ting has more than two decades of experience in teaching, research and software development in geotechnical engineering. And while he enjoyed doing research, Ting discovered that, by taking on management responsibilities as department chair, then dean, he can

have a broader impact in the educational arena.

"I believe that working to solve K-12 problems is more important than my research on a very specific aspect of a very specialized application," he said.

Ting received a bachelor's degree from McGill University, a master's from the California Institute of Technology and a doctorate from the Massachusetts Institute of Technology — all in civil engineering. Prior to joining the UMass Lowell faculty in 1990, he was a post-doctoral research fellow and lecturer at Cal Tech and a professor at the University of Toronto.

He has been an active participant in the Raytheon/UMass K-16 Engineering Collaboration, coach of MathCounts middle school teams, a member of the Lowell Arena and Stadium Commission, and director of the Groton Chess Club.

Ting has lived in Groton for the past 13 years with his wife, Christine, a UMass Amherst graduate in nursing, and his two children, Sean, a freshman at Stanford, and Caitlin, a sophomore at Groton-Dunstable Regional High School.

—PM



▲ Engineering Dean John Ting is settling into his new role.

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Grad School of Ed Moves to South — Next Stop, Lawrence Mills

GSE's move to UML South is temporary while construction is completed at the Lawrence Mills site in 2005. More than 250,000 books were relocated in the library as part of the consolidation and other improvements making room for the Graduate School. The Demonstration School will remain on UML West in modular units until the GSE's permanent move to the Lawrence Mills complex.

—EK



▲ From left, Prof. Judith Boccia, Patricia Noreau, Dean Donald Pierson and Interim Provost John Wooding gather after the Graduate School of Education ribbon cutting ceremony. Pierson thanked Noreau and Joe Caufield for completing the renovations and move so quickly.

UMass Lowell Professors Urge Congress to Protect Environment

Two professors took their case for exercising caution when crafting environmental and public health policy to Washington, D.C. over the summer. Profs. David Kriebel and Joel Tickner joined other scientists in speaking at a congressional briefing on "Science and Precaution in Environmental and Public Health Policy" which focused on the need to enact measures to protect the public, particularly in the areas of genetically modified organisms, climate change and toxic substances.

The precautionary principle — a point of international law that states that uncertainty should not serve as a reason to postpone measures to protect health and the environment — often has been criticized in the national arena for being "anti-science" or hindering innovation. Kriebel, Tickner and other speakers at

the briefing argued that precaution is consistent with good science and sound policy, and helping to prevent health and environmental risks while stimulating development of safer, cleaner technologies and products.

"The briefing was very well received with lots of questions about how to integrate precautionary thinking into federal decision-making," Tickner said. "I believe we helped dispel the misunderstanding about precaution as anti-science and anti-innovation, while stressing that we need more science to solve our most pressing environmental problems — but science underscored by a note of caution."

While initial work has focused on developing tools and methods for integrating precaution in science and policy, Tickner said the next steps will involve taking research and policy development results and ensuring their broad distribution, meeting stakeholders to discuss how to improve decision-making uncertainty, and involving scientists and policy makers in developing countries in these discussions.

The congressional briefing, which was attended by about 75 key congressional staffers and experts from government agencies, industry and nonprofit groups, was sponsored by Rep. Marty Meehan of Lowell, the Sustainable Development Caucus and the Livable Communities Task Force.



▲ From left, Profs. Joel Tickner and David Kriebel spoke at a congressional briefing on the precautionary principle sponsored, in part, by Rep. Marty Meehan, right.

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Wegman Named Dean of Expanded College of Health

deepening attention to the workplace and the environment," Wegman says.

The new dean's vision for the college is to integrate the teaching, research and service programs, particularly in the region, to promote human health and development, to have healthy individuals and families living in safe and productive communities based on environmentally sustainable economies. He believes that "healthy citizens and the medical and public health services that support them can be the leading edge of an economic and social transformation towards an ecologically and socially sustainable society."

To achieve this vision, Wegman sees the need for skilled professionals working with informed and empowered citizens to identify and carry out programs that prevent health and environmental hazards, treat illness and disability, build diverse and inclusive communities, develop safe and rewarding workplaces, and restore ecological integrity.

In short, Wegman asserts, "Our commitment is to educate students and to use the day-to-day work we do to affect the ways in which people live."

The expanded goals of the college will be achieved through strategic faculty hires, increased cross-disciplinary research and development of an academic program in environmental health. He has appointed Dr. Pauline Ladebauche to the newly-created position of Director of Undergraduate Education.

Although Wegman says there will be no changes for current students, he does envision enriched

and increasingly cross-disciplinary courses.

"The goal is to build on the strengths of the programs we have," he says. Wegman will also work with faculty to create a structure that fosters increased collaborative research.

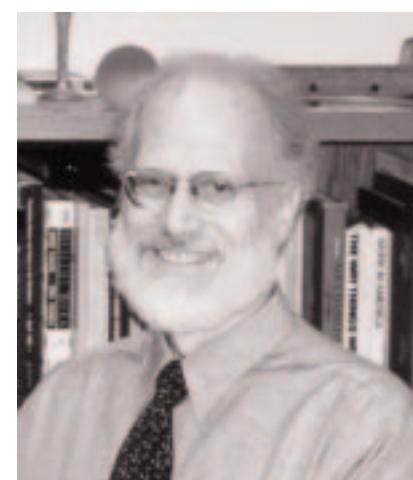
"I want to get to know the faculty better," he states, "and then help them set up working groups that build on natural linkages. The goal is to address people's health using the broadest possible definition of 'health' — including biomedical, environmental, social and cultural aspects — and to make it sustainable."

Wegman joined the UMass Lowell faculty in 1987 as professor and founding chair of the Department of Work Environment. He holds a bachelor of arts degree in history from Swarthmore College, an M.D. from Harvard Medical School and an M.S. in Occupational Health from the Harvard School of Public Health. Before joining the Lowell campus, he served as associate professor in occupational health at the Harvard School of Public Health and professor and director of the Division of Environmental and Occupational Health Science, University of California, Los Angeles School of Health. He continues to hold an adjunct appointment at Harvard as well as one at the Department of Family and Community Medicine, UMass Medical Center. He has served as a medical epidemiologist at the National Communicable Disease Center in the New York City Health Department, as director of Urban Planning Aid, Inc. in Cambridge, and as an occupational hygiene physician for the Massachusetts Division of Occupational Hygiene.

During a sabbatical leave and a Fulbright Fellowship he served as consultant to the Director of the National Institute for Occupational Safety and Health and of the Swedish National Institute for Working Life to develop a research agenda for the Impact of Work on Aging. Wegman is the 2003 Jameson Parkinson Memorial Lecturer at the British Society of Occupational Medicine.

In addition to publishing more than 200 articles on his research specialties of epidemiologic studies of occupational respiratory disease, musculoskeletal disorders and cancer, Wegman is co-editor with Dr. Barry Levy of one of the standard textbooks in the field of occupational health, *Occupational Health: Recognition and Prevention of Work-Related Disease*, the fourth edition of which was published in 2000. Wegman serves on the editorial boards of eight journals focusing on public, environmental and occupational health and is associate editor of the *American Journal of Industrial Medicine*.

Over the last 20 years, Wegman has served on seven committees of the Institute of Medicine and the National Research Council and on more than three dozen research and evaluation government commissions — the National Institute for Occupational Safety and Health, the National Cancer Institute, the National Institute of Environmental Health Sciences, the Environmental Protection Agency, the World Health Organization and the Commonwealth of Massachusetts, among others. His multiple chairmanships include his 1996 leadership of the Mine Safety and Health Administration Advisory Committee on the Elimination of Pneumoconiosis



▲ Dr. David H. Wegman is dean of the reconfigured College of Health and Environment.

among Coal Mine Workers and the Institute of Medicine Committee on the Health and Safety Implications of Child Labor. He is currently chair of the National Research Council's Committee on the Health and Safety Needs of Older Workers. This spring, Wegman was honored with an appointment as National Associate of the National Academies of Science.

Wegman has provided consulting and advisory services to a wide range of organizations, including the General Electric Company, Boston Gas Company, United Auto Workers/General Motors National Joint Committee, Chemical Manufacturers Association, ARCO Chemical Corporation and the American Petroleum Institute. Since 1991, he has chaired the Epidemiology Review Board of the DuPont Corp.

This spring, Wegman was named a member of the Science Board of the American Public Health Association, internationally the largest organization of public health professionals. He has just finished his second term as a board member of the International Commission on Occupational Health and continues to serve as treasurer and member of the executive committee of the International Epidemiological Association.

—EJ

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In the Land of Bobble, Kerouac Is King

Through it all, Holladay has been asked time and again if the Beat icon would approve of his likeness cast in bobble.

"Kerouac had a great sense of humor. And like most writers, he wanted acclaim," she says. "I think he would've gotten a real kick out of it."

And it would appear that the Kerouac doll agrees.

He's nodding his head in continuous approval.

—KL



▲ John Wooding, interim provost, left, and John Sampas, literary executor for the Kerouac Estate, enjoy a friendly tug-of-war over the coveted Kerouac bobblehead.

UMass Lowell Joins Internet Research Network

The UMass system has joined 200 leading research universities, the federal government and industry on the powerful Internet2 network that enables researchers to share massive amounts of data with their peers around the world.

Using this network, scientists at UMass Lowell are collaborating with colleagues at Northeastern University and the University of New Hampshire on a \$17 million National Science Foundation grant proposal to create a Nanoscale Science and Engineering Center. The grant would advance research in nanotechnology manufacturing and attract nanotechnology firms to the region.

The five campuses of the UMass system are connected to the global network through the UMass-managed Massachusetts Information Turnpike Initiative, a high-speed network that links public higher education institutions, libraries and other public agencies to the Internet.

NEASC Review Set for This Fall

For more than a year UMass Lowell has been preparing for this fall's accreditation review by the New England Association of Schools and Colleges (NEASC). NEASC is the regional commission responsible for reviewing accredited New England schools and colleges at least every 10 years. Securing re-accreditation is vital to the campus, as it will affirm the institution's integrity and well being for both the public and prospective funding agencies.

When the NEASC committee visits the Lowell campus in October, their review will concentrate on institutional integrity and effectiveness. Institutional integrity deliberately attempts to make the matter of ethics all-inclusive. Institutional effectiveness encompasses virtually all aspects of institutional activity, especially the education of students, according to Kenneth Lemanski, assistant to the provost.

Lemanski, along with Mary Beaudry, director of the Faculty Teaching Center, worked closely with NEASC Steering Committee and Chair Janice Stecchi, former dean of health professions, to shepherd the project through its various stages.

NEASC requires schools and colleges seeking re-accreditation to prepare a comprehensive self-evaluation document reporting on 11 standards. The standards include mission and goals; evaluations; governance; programs and instruction; faculty; student services; library and information resources; physical and financial resources; public disclosure; and integrity.

Representatives of UMass Lowell faculty, staff and student body have developed the self-evaluation document or "self-study," a draft of which is on the UMass Lowell Web site. Those who have not yet been actively involved in the process may take this opportunity to read the document. The campus community's participation is important to the successful completion of the self-study. To comment on the draft, please write to Kenneth_Lemanski@uml.edu.

Project SPLASH Starts Summer Fishin' Mission

Drop your hook and line into one of the canals in Lowell. While waiting for a nibble, you might ask yourself, What kinds of fish are there in the canals? Are they safe to eat?

Project SPLASH aims to find answers to these questions, starting with its new summer program, Fishin' Mission.

"There have been no formal assessments of these canals and whether there are any hazards of fishing and fish consumption," says Cheryl West, SPLASH project manager. "Yet young people and



▲ From left, Tony Yan of the Lincoln School caught the fish and Israel Torres, UMass Lowell junior working at the Center for Family, Work and Community, helped out, as Ashley LaFerriere of the Lakeview School in Dracut took the fish off the hook.

members of ethnic groups may be fishing in the canals and eating their catch. We'd like to develop accurate information about the volume of angling and the contaminant load of commonly consumed fish."

Fishin' Mission recruited youth from the summer program at the YWCA, Spindle City Youth Corps and the Rogers School, then taught them the basics of water quality testing, fish handling, fish identification and sample preservation. Dr. Joe Buttner, biology, Salem State University, is an expert on freshwater fish and taught the



▲ Diane Mokor, left, Lowell High School, and Kpana Jordan, Lowell Catholic, concentrate on hooking the baitworm.



▲ Caitlin and Jose DeJesus, Rogers School, admire Caitlin's catch.

students angling techniques, assisted by Andy Chandonnet, youth director, YWCA.

Dr. Oscar Pancorbo, at the Wall Station state testing laboratory in Lawrence, is donating the analysis of tissue samples from the fish, a service that could cost as much as \$150,000.

"State agencies are very interested in what we discover," says West. "Even the experts don't have answers about the detailed conditions of the canals, the sediments and the edibility of the fish."

TURI Sponsors Sustainable Technologies Research

Manufacturing things, whether widgets or circuits, often requires the use of hazardous materials: solvents, coatings, lead, mercury and the like. The mission of the Toxics Use Reduction Institute (TURI) is to help companies find innovative and benign alternatives to replace toxic substances in production processes.

Teams of researchers—faculty, graduate students and company sponsors—have engaged in research on sustainable technologies, supported by funding from TURI. The teams presented their findings in a late spring symposium.

Among the presentations, Paul Wormser, chief product marketing officer at Konarka Technologies, joined Prof. John Duffy, energy engineering, to discuss polymer photovoltaic module production for exterior use. Assoc. Profs. Joey Mead, plastics engineering, and Changmo



▲ Graduate students are a vital part of research at the University. Participating in the TURI research symposium on sustainable technologies were, from left, Dong Hee Kang, plastics engineering; Salinee Tavaranan, energy engineering; Bong Woo Kang and Keyur Desai, chemical and nuclear engineering; and Ujjwal Bhattacharjee, energy engineering.

Sung, chemical and nuclear engineering, discussed alternatives to lead stabilizers in coated wires and cables. Prof. Stephen McCarthy, plastics engineering, is investigating more environmentally benign polymeric coatings for wire and cable. Prof. Daniel Sandman, chemistry, discussed a "green chemistry," solvent-free approach to synthesis of commercial dyes and pigments.

ALANA Hosts Hispanic Heritage Month

Got a craving for some fiery salsa? Dying to dance the 'forbidden' Lambada? Then throw on your Guayabera shirt and join the cultural celebration during the University's Hispanic Heritage Month.

From September 18 through October 15, students of African, Latin, Asian and Native American descent (ALANA) will be sponsoring an array of Latino-themed festivities, titled "Rompiendo Barreras," or "Breaking Barriers."

Here's a list of events:

- Thursday, Sept. 18, Salsa Sauce Contest
- Tuesday, Sept. 23 & Thursday, Sept. 25, Art Workshop: Celebrate a Spectrum of Culture
- Wednesday, Sept. 24, "Tres Vidas," music based on the lives of three legendary Latin American women.
- Tuesday, Sept. 30; Wednesday, Oct. 1; Thursday Oct. 2, Hispanic Cuisine
- Wednesday, Oct. 1, Breaking the Barriers Panel Discussion
- Tuesday, Oct. 7, Film
- Thursday, Oct. 16, LASA's Dance

For more information, contact the office of ALANA at (978) 934-4336.

Recording Studio Provides Sound Foundation

Recently, singer Charlotte Church was on campus performing an angelic passage from Andrew Lloyd Webber's *Requiem*. That was followed by James Taylor singing a hit from his *Hour Glass* CD.

Of course, they weren't really live performances, they just sounded that way. That was because the pieces were being played in the Sound Recording Technology's (SRT's) newest classroom, the Critical Listening and Recording Studio, tucked in the back of Durgin Hall.

According to Bill Carman, associate director of sound recording technology facilities at UMass Lowell, the just-completed sound laboratory is unique among educational facilities. Carman says the room was designed to allow students to examine the idiosyncrasies inherent in sound, especially music, without the distortion usually associated with amplification equipment or the physical characteristics of a space itself. In this room, those effects have been neutralized.

In general, sound waves travel around a space like billiard balls—bouncing sharply off harder surfaces, getting absorbed in softer ones. The result of these misdirections of sound waves is a distortion of the intended effect of the sound engineer or musician.

"The acoustics of this room," says Carman, "are not going to color the acoustical character of what you're recording. The transparency and resolution of the system, and how those couple, make for an unparalleled listening experience."

The room design provides this transparency through a combination of the highest quality surround-sound monitoring system and an extraordinary level of detail in the planning of the room's physical structure. Sound controls are built right in to lumber of the floor and walls. Sound absorbent and reflective panels alternate along the walls in zigzag pattern to provide just the appropriate amount of reinforcement. And these panels can be changed depending on what's desired for sound recordings.

The flexibility of the structure is built in to allow for two distinct uses: recording and critical listening. According to Prof. William Moylan, chair of music and sound recording coordinator, SRT students will be able

to record sound in a way that allows them to capture the exact attributes of a particular instrument or voice. And, as a critical listening lab, he says the room will allow about 30 students at a time to be able to recognize, understand and use creatively the unique qualities of sound.

The room's sound reproduction is "perfect in its accuracy," says Moylan. "All students will hear pretty much the same thing and it will be exactly what's intended."



▲ Prof. William Moylan, left, chair of music and sound recording coordinator, and Bill Carman, associate director of sound recording technology facilities, try out the new Critical Listening and Recording Studio in Durgin Hall.

Carman adds, "Students will hear the subtle differences in sound technologies—digital vs. analog, surround sound vs. stereo."

Carman, who was the first graduate of the SRT program when it originated in 1984, joined the SRT staff in 1987. He compares the studio to the highest end mastering studios.

"This room isn't just providing cutting edge technology, it's defining what cutting edge is," says Carman.

In addition to supporting projects of undergraduate SRT students, the half-million dollar studio will be an important asset to graduate students in the proposed SRT master's program that Moylan hopes will begin in the fall of 2004. He anticipates developing industry partnerships that will bring select companies to campus to perform cooperative research.

Carman says numerous audio professionals have already expressed an interest in touring the facility. An open house is being planned for later in the fall.

Pierson Opens New Season of Parker Lectures

Assistant Professor Michael Pierson of the History Department opened the fall season of the annual Moses Greeley Parker Lectures in Lowell on Sept. 14 with a talk on one of Lowell's most colorful historical figures, Benjamin Butler. A major personage of the nineteenth century, Butler was a Civil War general and later the governor of Massachusetts, to name a few of his accomplishments. He gained international attention for his handling of occupied New Orleans, where he was the U.S. commander.

Pierson is the 2003 Scholar in the City at the Patrick J. Mogan Cultural Center, operated by Lowell National Historical Park in partnership with UMass Lowell. This talk is the culmination of a year of Butler research by Pierson.

The Parker Lectures, established in 1917, are presented in cooperation with UMass Lowell, the City of Lowell, Lowell National Historical Park, Lowell High School and Pollard Memorial Library.

Upcoming programs include "Shakespeare Behind Bars: The Power of Drama," a talk by author Jean Troutstine, who will describe her work with women prisoners, on Saturday, Sept. 20, at 2 p.m., at Pollard Memorial Library, 401 Merrimack St. Also upcoming is "Gift of the Game," a documentary film in which author Randy Wayne White searches for the 1940s Cuban youth baseball team founded and coached by Ernest Hemingway.



Following the film a panel of speakers will discuss the movie and the wide appeal of baseball. The film will be shown on Sunday, Oct. 5, at 2 p.m. in the National Park Visitor Center, 256 Market St..

On Monday, Oct. 20, at 7 p.m., the lecture location shifts to the O'Leary Library auditorium, Room 222, where author, editor and Lawrence native Raymond Mungo will describe the heady days of 1960s counterculture activists in a talk titled "Famous Long Ago: Eyewitness on the Sixties." Mungo's memoir *Famous Long Ago* is an underground classic that is now being made into a film. His fellow 1960s activist, poet Veronica Porche of Vermont, will join the California-based author in the program. The University community is invited to a pre-lecture light supper, sponsored by the University Library.

Looking farther ahead, in January, Prof. Liana Cheney of the Cultural Studies Department will present a slide-talk ("Lowellian Religious Illumination") about the stained glass windows in the city's churches.

For information on these programs or to obtain copies of the complete Parker Lectures schedule, contact Paul Marion, director of Community Relations, at x3107 or Paul_Marion@uml.edu.

New Windows Installed in Falmouth and Pasteur

More than 100 new, insulated windows were installed in the Falmouth and Pasteur buildings on UML North during the summer.

One of the objectives of the project was to reduce energy costs. The new thermal-pane windows will be more efficient in retaining heat in the winter months and cooling during hot weather.

"The work was completed very expeditiously," says project manager Marie Gaine. Replacement began June 16 and was completed on Aug. 28.

"We've received a lot of compliments from faculty and staff about the new windows," Gaine says. Occupants of the buildings are especially pleased that the windows greatly reduce traffic noise from the VFW Highway. They also are coated to prevent glare.

This was the first phase of a more extensive project in which all windows in the quad—Falmouth, Pasteur, Kitson and Southwick—will be replaced eventually, according to Gaine.

Home Movies Hold Reel History

There aren't too many of us who would accept a neighbor's invitation to come over for an evening of watching old home movies. The phrases "Here's Wendell's first steps" or "Let's put in Kimmy's first day of school" don't necessarily stir viewing excitement in anyone beyond the immediate family.

Yet, these "personal documents" can offer a wealth of information for anyone interested in understanding various aspects of twentieth-century life. In order to preserve this potential data, Prof. Chad Montrie, history, is collecting home movies and videos in an effort to create an archive for researchers interested in interpreting that past.

Montrie came up with the idea while watching his family's own home movies, thinking about how amazing it was to see aspects of the history.

"It occurred to me that these sources were fairly numerous and there was no good explanation for why twentieth-century historians haven't been using them," Montrie says. "Ideally, I will begin teaching a course on U.S. social history with home movies starting in the fall of 2004."

That meant he needed a collection and a place to store it. To that end, the University's Media Services agreed to store donated videotapes collected from people on campus and in the community.

Mitch Shulzman, director of Media Services, says this is the first time his department has been involved in a project of this type.

These mini-documentaries may provide insight into how American life is shaped by class, race, ethnicity, gender and modernity in general.

Shulzman says, "I just thought it was a great idea, although we're really only prepared to accept videotapes in a VHS format at the present time."

Media Services doesn't have the proper equipment to show older, reel-to-reel movies unless contributors have already had them converted to tape. Media Services can make copies if donors don't want to lose the originals.

There are many subjects and themes that home movies allow historians to explore, Montrie says, from holiday rituals to social activism to recreational events. These mini-documentaries may provide insight into how American life is shaped by class, race, ethnicity, gender and modernity in general.

The collection will, at least initially, focus on the United States, but this does not exclude home movies of trips to other countries or domestically made films with primary attention on subjects who are not Americans.

According to Shulzman, the big challenge will be to get the tapes coded. If that work is completed, it's possible that a computer database would be available for scholarly research.

"Home movies allow historians to engage the past in qualitatively different ways," says Montrie. "Both visual and audio evidence can offer clues and insights that get lost in written evidence."

If you would like to contribute some old home movies to this collection, or if you would like more information about the project, contact Chad_Montrie@uml.edu or ext. 4275.

Conference Explores Education's Role in Sustainability

Education for Sustainable Development" will be the topic of the annual conference sponsored by the Committee on Industrial Theory and Assessment (CITA), Oct. 23-24.

"The conference brings together scholars and community activists concerned with the role that higher education can play in promoting sustainable and equitable development," says conference co-chair, Prof. Bob Forrant of the Dept. of Regional Economic and Social Development.

Among the papers to be presented is a study by Dra. Blanca Estela Lemus Ruiz of the School of Biology at the University of Michoacán in Mexico called, "Occupational and Environmental Health of Copper Artisans in Santa Clara del Cobre, Michoacan, Mexico: A Sustainable Approach." The study reviews the changing health and environmental risks posed to workers in the production of copper artifacts, a 500-year-old industry.

Priscilla Geigis, director of Community Preservation for the state, and Prof. Linda Silka, co-director of UMass Lowell's Center for Family, Work and Community and conference co-chair, will report on the Community Preservation Institute (CPI). CPI offers a certificate program intended to encourage local leaders to explore tools, techniques and resources to use to help preserve and enhance the "sense of place" in their communities.

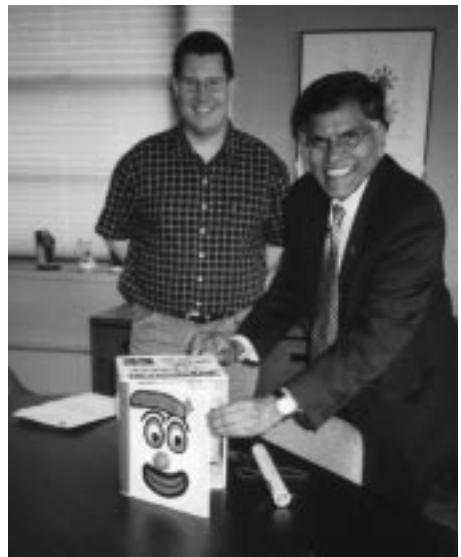
The unique role of universities will also be a major topic at the conference.

"Successful models from several universities in and outside Massachusetts engaging students and faculty in regional development efforts will be showcased. And, there will be ample time for discussion throughout the two-day event," says Forrant.

For complete conference information or to register on-line, visit <http://www.uml.edu/com/CITA/>, or contact Prof. Forrant at rforrant@external.umass.edu.

Vedula Leaves for Post at National Science Foundation

Krishna Vedula, who served as UMass Lowell's dean of engineering since 1995, has stepped down to become a program director at the National Science Foundation. He will hold a joint appointment between the Directorate of Education and Directorate of Engineering at NSF and will continue to hold a faculty position at UMass Lowell.



▲ Doug Prime, left, director of K-12 educational outreach for the college, presents Vedula with his own secret candy safe, sealed with an electromagnetic lock. The candy safe is a hallmark project for students in Design Camp, developed and directed by Prime.

John Ting, who has served as chair of the Civil and Environmental Engineering Department, will be the new dean.

Vedula, well known in the business and technology communities for his commitment to education, will work on undergraduate education in math, science and engineering. He will also oversee existing programs, such as the Laboratory Improvements program, and aims to develop new programs as appropriate.

"I hope to build a strong program in developing the pipeline of math and science teachers," says Vedula. "I'd like to set up centers for learning excellence across the country."

Vedula's tenure with the College of Engineering included many innovations, such as the Engineering in Mass Collaborative, the summer Design Camp, after-school Design Lab, and the Introduction to Engineering course for schoolteachers.



▲ At the annual Engineering Alumni Awards dinner, Vedula and his wife Aruna were surprised and honored with the establishment of an endowed scholarship fund. Additional contributions on the spot raised the fund's value above \$30,000.



▲ Krishna Vedula, left, stepping down as dean to take a position at NSF, will have a UMass Lowell "chair from the chairs," presented here by Alfred Donatelli, chair of chemical and nuclear engineering, and John Ting, chair of civil and environmental engineering. Ting has been appointed the new dean of engineering.

Oils by Alumna are Featured at University Gallery Exhibit

An exhibit of the works of 1999 UMass Lowell alumna Ellen D. Mullane, which represents the culmination of her recent Master's thesis work through Boston University's Fine Arts painting program, will show at the University Gallery now through Sept. 26.

Mullane's appreciation for the eastern oil-painting aesthetic is apparent in the patterns and rich colors used; at the same time, the



▲ Ellen D. Mullane's "Lady and Her Mountain"

artist manages to incorporate her own distinct western ideas in the composition of her abstract human forms and their adornment by "elements found in women's craft(s), childhood gadgets and... fashion magazines."

Upcoming exhibits at the University Gallery scheduled for later this year include photography by Beat writer Allen Ginsberg, Oct. 1-Nov. 7; a multi-media exhibit, "The Alphabet as Art," Nov. 12-Dec. 10; an exhibit of works by UMass Lowell BFA candidates, Dec. 13-Jan. 10; the paintings and other works of Timothy Harney, Jan. 28-Feb. 25; sculpture exhibits by Doug Bosch, March 3-April 7, and by Rob Millard, April 14-May 12; and finally, a year-closing second exhibit of BFA candidates' work, May 15-June 12.

The University Gallery is on the first floor of the McGauvran Student Center, UML South. Hours are Wednesday through Friday noon to 3 p.m. and Saturday 1 to 4 p.m.

Student Artwork to Get Three-Week Viewing at Dugan Gallery

A three-week showing of student paintings, all created under the direction of 2002-03 painting instructor Tudor Mitroi, has kicked off the fall season at the Dugan Gallery.

Following that, from Oct. 8 to 29, the Dugan will feature an alumni photography exhibition, showcasing the works of Melissa Boyajian, Mark Eshbaugh, Anne Hopkins and Darren Perrochi.

On Nov. 12, "November Light," a mixed-media exhibit of sculptural boxes by Gail Milligan '04, will kick off



with a 5 p.m. reception. The exhibit will continue through Dec. 3.

Scheduled spring '04 exhibits include "Art and Copy," curated by graphic design Prof. Karen Roehr and Arno Minkkinen, director of the UMass Lowell Photography Department; an exhibit of 3-D sculpture, handmade paper and ceramics;

and the annual BIG student show, a juried exhibit of Art Department student work.

The Dugan Gallery is in Dugan Hall, 883 Broadway, UML South.



Seminar Examines Refugees and Immigrants in Massachusetts

◀ Vivie Hengst, Esq., center, general counsel, Massachusetts Office for Refugees and Immigrants, was the keynote speaker at last spring's seminar on Resettlement of Southeast Asian Refugees and Immigrants in Massachusetts. She is joined by Hai Pho, left, professor emeritus of political science and Lan Pho, director emeritus of the Center for Diversity and Pluralism who were among dozens of scholars and professionals in attendance. The Council on Diversity and Pluralism, the Indochinese Refugee Foundation and the Association of American Colleges and Universities sponsored the event.

Freshmen Spend Summer in the Labs—And Love It

They set up lab experiments, worked with quantum dots and fuel cells, and created a Web site.

Some lived on campus.

And all had a wonderful time.

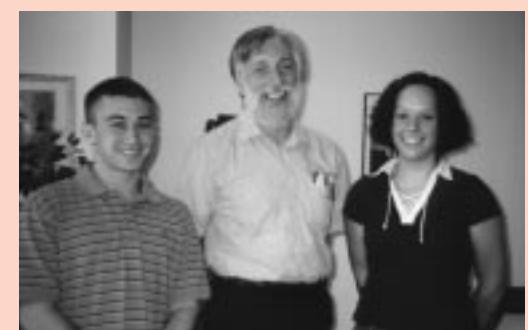
The students in Summer Opportunities in Science, SOS, are a select group of incoming freshmen majoring in chemistry, physics or mathematics. UMass Lowell offered them summer work in their major, under the direction of faculty, in place of the low-level jobs usually available to high school students.

SOS students at the closing luncheon said they felt more prepared for the start of classes. They enjoyed the graduate students and faculty they worked with, as well as getting to know each other. Some of the students pursued specialized interests: the bioinformatics

option in math, for example, and the optics option in physics.

Faculty said the benefits went both ways.

"This is one of the best things we've ever done," said physics Prof. Arthur Mittler. "The students learned more about physics and we accomplished a lot with their help."



▲ Physics Prof. Arthur Mittler enjoyed directing the work of incoming physics majors Alex Smith and Stephanie Lessard. The SOS program provided summer lab and research work for 11 students majoring in the sciences.

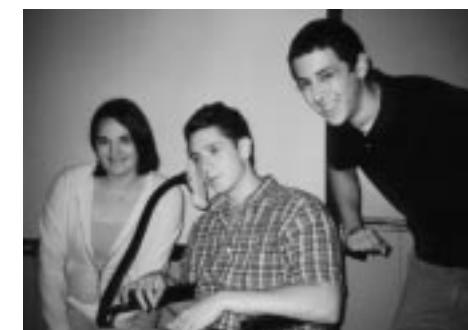
Young Students Take on Challenge of Assistive Technology

You are absolute pioneers," said Doug Prime, director of K-12 educational outreach for the College of Engineering. "This is top-notch work."

Prime was speaking to teams of high school students from Tyngsboro and Westford who had tackled the sort of project normally completed by UMass Lowell seniors in electrical and computer engineering. The students had to find a client with a handicap, identify a problem in daily living and resolve it, using whatever knowledge and skills they could apply.

At the first-ever High School Assistive Technology Design Fair, the four teams made formal presentations and demonstrated working prototypes.

The three Tyngsboro teams, advised by mathematics teacher Don Rhine, modified a speaking clock for a blind client, so it could be operated



▲ "Who's calling?" Tyngsboro High School student Mark Douglas, flanked by teammates Kiersten Lemoine and Matt McOske, demonstrates an easy-to-use telephone holder attached to a wheelchair. The students designed the adaptation for a client who had recently suffered a stroke and could use only her left hand.

remotely; created a flexible-arm telephone holder for the wheelchair of a client who suffered a stroke; and designed a fail-safe brake system for an elderly frail client's wheeled walker.

The Westford team, advised by engineering and technology teacher Dave Amos, designed a motorized desk (on a platform) that a temporarily disabled student could use in lieu of a wheelchair.

As part of the fair, Tomoko Koyama, a graduate student in electrical and computer engineering, demonstrated the "mind mouse" project, an adaptation by which a client can operate a computer mouse by moving facial muscles.

Don Clark, director of the UMass Lowell Assistive Technology Program, presented each of the participants with a certificate and medal.



▲ Doug Prime, director of K-12 educational outreach for the College of Engineering, listens intently to Tyngsboro students Rob Delehaney and Mike Raymond as they describe how they created brakes for a wheeled walker. The students were part of the first High School Assistive Technology Fair.

Design Camp Generates Buzz

Walk down the halls in July, and a contented buzz fills the air.

Labs and classrooms are filled with kids—soldering, snipping, drilling, drawing, testing and talking.

Ah, you say, Design Camp is back!

Design Camp, directed by Doug Prime, director of K-12 educational outreach for the College of Engineering, reached more than 400 students

this year—and every one of them seemed happy to be engaged in hands-on science and technology projects.

Twelve different workshops were offered, three of them new: Animatronics, Sea Mobiles and Architect's Studio. Many UMass Lowell faculty and staff sent their own children to the camp and stopped in at the big design show in Cumnock Hall.



▲ The Kinetic Sculptures workshop combined metalworking technology with studio art to yield sculptures activated by wind and water. Jo McCorkle of Holden shows just a small part of his 15-foot-wide mobile.



▲ Robo Puppy: his eyes move, and his nose wiggles as he rolls along. Sarah Guo, Windham, N.H., created him in Animatronics, a new Design Camp workshop about making automated machines.



▲ The pool in Costello Gym became a testing tank for odd-looking submarines as students in the Sea Mobiles workshop maneuvered their creations to retrieve rings from the bottom. Achieving neutral buoyancy underwater was both a theoretical and practical challenge.

◀ Some campers come a second week to pursue advanced projects. Jeremy Wood of Westford had completed audio speakers in the Electronics and Music workshop and moved on to building an electric guitar.

Business History Conference Brings 300 to Lowell



▲ Prof. Michael Best, emeritus in management, left, and Prof. Bill Mass, Regional Economic and Social Development, took part in the joint meetings of the Business History Conference and the European Business History Association in Lowell last June. Mass, who hosted the event, says the event marked the first time the two organizations met together in the United States. Nearly 300 scholars from around the world attended.

Tom Gill, Long-time Lowell Artist, Now Exhibiting at Brush Gallery

The exhibit now showing at Lowell's Brush Gallery, "People: a Survey of Recent Paintings by Tom Gill," provides an overview of the work of one of the gallery's original resident artists.

Gill, following a successful career as a rock musician, joined the Brush when it opened in the early 1980s, following preparation at the Art Institute of Boston. Today, considered one of the most important artists ever to have come out of Lowell, he has been showing his work at galleries throughout Massachusetts, including the Francesca Anderson Gallery in Boston and Lexington, the Whistler House in Lowell, the Concord Art Association, the Gallery on the Green in Lexington and the North Shore Art Association in Gloucester.

His work, which demonstrates a strong influence by the Impressionists, focuses often on scenes exploring themes of memory and time. It is inflected with color harmonies that blend in subtle gradients, illuminating the artist's personalized style.



▲ Tom Gill's work will be exhibited at Brush Gallery now through Nov. 2

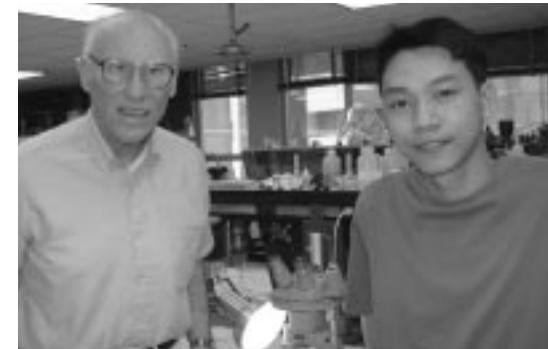
The exhibit, which opened at the Brush Sept. 14, will run through Nov. 2, and has been funded in part by the Lowell Cultural Council, a city agency, and the Massachusetts Cultural Council.

The Brush Gallery and Studio is a non-profit service, education and membership organization that provides studio and exhibition facilities for artists and programs. It is located at 256 Market St. in the National Historical Park in Lowell. Hours are Tuesday to Saturday, 11 a.m. to 4 p.m., Sunday noon to 4. For more information, phone (978) 459-7819

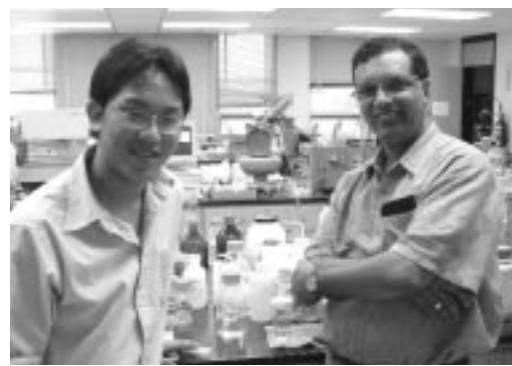
Lowell High Students Sacrifice Summer for Science

Bao Nguyen was looking for an alternative way to create polymers using green chemistry. His friend Bio Tran was trying to isolate the decomposition product of P-Cyanobenzoic Acid.

Both students were on break from Lowell High School and could have been out soaking up the summer with the rest of their classmates. But both decided they'd rather learn about organic chemistry in the Research in Engineering Apprenticeship Program (REAP) at UMass Lowell.



▲ Prof. Dan Sandman, left, works on laboratory technique with Bio Tran, a junior at Lowell High School, as part of the REAP project at UMass Lowell.



▲ Dr. Ashok Cholli, right, and Lowell High junior Bao Nguyen research green chemistry techniques during a summer science project.

Funded by the U.S. Army and the Academy of Applied Sciences in Concord, N.H., REAP encourages high school students to pursue careers in science. It offers hands-on research experience in lab environments under the guidance of real scientists.

"These kids are genuinely excited about science," explains Prof. Dan Sandman, Chemistry Department, one of the program's mentors. "So much so that Bio has put in double his required hours, and Bao has asked to come back in the fall, during off-school hours."

More than 200 Hit the Fairways to Support UMass Lowell Athletics

Some hacked, some struck, one even nailed a hole-in-one, but the 200 players in the 2003 UMass Lowell Golf Tournament all had something in common: They gave it their best shot to help raise thousands of dollars for student-athlete scholarships.

The 13th annual event attracted faculty, staff, alumni, corporate partners and other friends to the sprawling Sky Meadow Country Club in Nashua, NH, formerly rated by *Golf Digest Magazine* as the premier course in the Granite State. The brisk May temperatures and threatening clouds did not deter the participants from hitting the links in earnest in separate morning and afternoon rounds. The scramble format enabled golfers of all ability levels, from the novice fairway duffer to the polished long-ball striker, to compete as a team in four flights determined by average handicaps and participate in various individual challenges such as longest-drive and closest-to-the-pin contests.

"The day was a success from start to finish, despite the unseasonable weather," said tournament Director Mary-Jane Mastrovich, assistant athletics director. "It was especially rewarding that so many returning players, as well as newcomers,



▲ Environmental Health and Safety Assistant Director Rich Lemoine, left, enjoyed his round with retired staffer Joe Antonuccio, even though he did not duplicate his 1992 tournament hole-in-one feat.



▲ Afternoon President's Flight winners were, from left, Jeff Rafferty of Men's Basketball, Bill Penney, Ken Gys and Matt Eynon of Advancement.

turned out to support UMass Lowell and its athletic program. I look forward to seeing them all again next year."

The happiest golfer of the day was no doubt Been Wang of Belmont, a friend of retired management Prof. Linda Kistler, who demonstrated uncanny accuracy by placing the ball in the hole with one perfect stroke, entitling him to a brand-new Mountaineer SUV sponsored by

Gervais Lincoln Mercury. His feat repeats a performance not seen in the tournament since 1992 when Environmental Health and Safety Assistant Director Rich Lemoine won a trip to Florida with a hole-in-one triumph at the Shaker Hills Golf Course.

Groups which earned the distinction of achieving the best scores and winning the Championship Flights were: morning, Tony Ziagos, '72; Scott Taylor; Charlie Meeker; and Oscar Patino; and, afternoon, Gary Mucica, '71; Jim Nolan, '71; Bob Eddy; and Wayne Perkins.

The coveted Tom Mahoney Academic Cup, named after the late ARAMARK food service employee and avid River Hawks supporter, for the group boasting at least one UMass Lowell

employee was won handily by the University Advancement team of Associate Director Brian Andriolo, '95; Joe Andriolo; Kevin Andriolo, '99; and Tom Sullivan, '02.

Other University staffers who distinguished themselves were Women's Basketball Coach Kathy O'Neil and retired management Prof. Kistler, who shared the women's longest drive honors; University Advancement Executive Director Matt Eynon and Assistant Men's Basketball Coach Jeff Rafferty, whose team won the afternoon President's Flight; and computer science Prof. Tom Costello, who helped his team top the morning Chancellor's Flight. The Communications and Marketing team of Patti McCafferty, Jack McDonough, Gerry Nelson and Rick Sherburne also "won" the morning's highest score award, a fluke that they are planning not to duplicate in next year's tournament.

But, regardless of what the score cards showed at the end of the day, all players were winners, as they were treated to a surf-and-turf post-tournament fete and took home a duffle bag of goodies featuring monogrammed T-shirts, hats and other golf items that rivaled other tournaments — courtesy of the generous corporate sponsors.



▲ Health and Clinical Sciences professors were well represented by, from left, Mike Frechette, John DeFreites (retired), Tom Wilson and Gene Rogers.



▲ Morning highest score "winners" were the Communications and Marketing team of, from left, Jack McDonough, Rick Sherburne, Patti McCafferty and Gerry Nelson.

Minkkinen Photo Graces Cover of Newly Released Novel

A photograph by Prof. Arno Minkkinen of the Art Department graces the jacket of a novel that has been described by one reviewer as possibly the most important book of the century.

The photo, titled "Fosters Pond Millenium 1.2.2000," appears on the cover of the novel *Platform*, by Michel Houellebecq. Described as a controversial work, the book, translated from the French, was released in the United States this summer by Alfred A. Knopf.



▲ Fosters Pond Millenium 1.2.2000

Writing in the *New York Times*, critic Janet Maslin said, "The cover photograph on Michel Houellebecq's new novel depicts a faceless person walking on all fours in an otherwise unspoiled, watery wilderness. This presents an idea of how the author regards the human condition."

In a review in the *Evening Standard*, Melanie McGrath said, "The most important book of the year—and perhaps of the century thus far—is Michel Houellebecq's dazzling and prescient novel of post-modern alienation."

Of the book, which culminates in the massacre of Western tourists at an Asian holiday resort, *New Statesman* writer Andrew Hussey said the author "is one of the few novelists working in any language who properly understands the tensions of the present age."

Discussing his own reaction to the novel, Minkkinen said, "It left me depressed, flat out, for two days straight. How can it be that beauty eventually surfaces from so much pain and suffering, and all the more brilliantly so because of the devastation and shameless depravity of human cruelty?"

The cover photograph was one of a number that Minkkinen made at Fosters Pond in Andover in 2000. At that time, a film crew from WGBH-TV, Channel 2 in Boston, taped him at work for one segment of a show the station was doing about a DeCordova Museum photography exhibit.

A collection of Minkkinen's work, including the Millenium piece, is on exhibit through Oct. 4 at the Tibor de Nagy Gallery in New York. His work has been shown in New York photo galleries in the past, but the Tibor de Nagy show is the first time his photographs have ever been exhibited in a painting gallery.

Gibson, Slatin Honored for Exemplary Public Service to the Commonwealth

Public service infuses and exemplifies the work of two UMass Lowell faculty, Joyce Taylor Gibson and Craig Slatin, who were recognized recently with the University of Massachusetts President's Public Service Award.

Gibson is associate professor of education in the Department of Curriculum and Instruction/Leadership in Schooling, and co-director of the Center for Family, Work and Community. The award cited her leadership in a variety of Lowell's outreach efforts to underserved minorities, including the Family School Partnership project, the CIRCLE program and GEAR UP.

Gibson is editor of the book *Educating the Throwaway Children: What We Can Do to Help Students at Risk*, and author of *Developing Strategies and Practices for Culturally Diverse Classrooms*. She is a frequent invited presenter at academic conferences, as well as to community groups, and is a research collaborator with UMass Lowell's Center for Women and Work.

Prior to joining the faculty at UMass Lowell, Gibson had directed the Office of Minority Education at MIT, directed the Drop-Out Project at the Center for Field Services and Studies at UMass Lowell, and was the Dean of Student Services at Clark University.

Slatin is assistant professor of health education and policy in the Department of Health and Clinical



▲ Joyce Taylor Gibson



▲ Craig Slatin

Sciences, and co-director of the Center for Public Health Research and Health Promotion. The award cited his leadership in health and safety in New England, including the Hazardous Waste Worker Training Program of The New England Consortium, the Environmental JOBS program and safety training at Malden Mills.

Under Slatin's guidance, the Hazardous Waste Worker program has obtained more than \$10.3 million in funding from the National Institute of Environmental Health Sciences and has trained more than 11,000 workers in hazardous waste containment and emergency response to hazardous material incidents. Slatin is now co-leader of a five-year research project on Health Disparities Among Healthcare Workers, funded with a \$2 million grant from the National Institute of Occupational Health and Safety.

Before working at the then University of Lowell, Slatin worked with the Boston Health Department and the state Department of Labor and Industry.



Chancellor Thanks Staff for Extraordinary Effort at Board Meeting

▲ Two housekeeping staffers, Rick Shaw and Mary Jo Finn-Ryan, flank Chancellor William T. Hogan at a thank you breakfast he hosted August 28. Nearly 100 Physical Plant, University Police and ARAMARK staff members were invited in appreciation of the extraordinary efforts made on the day of the Board of Trustees meeting on August 6.

Promotions & Appointments

Promotions

Ann Marie Ciaraldi, director of Residence Life in Student Life, from senior associate director.

Christopher E. Foye, associate athletic trainer, from assistant athletic trainer.

Mary Recko, staff assistant I in Physical Plant, from administrative assistant.

Janice Skryness, staff assistant I in Student Life, from administrative assistant.

Linda Southworth, director of Graduate Admissions and Commons Admissions Liaison in the Graduate School, from director of Graduate Admissions.

Karen I. Volis, staff assistant I in Computer Science, from secretary.

Greg E. Wilder, director of Residential Operations and Building Services in Student Life, from associate director.

Appointments

Kwangseog Ahn, post doctoral in the Research Foundation, from 03 student employee.

Kristen Bilapka, administrative assistant in the Research Foundation, from 03 status.

Derek Costa, assistant director of Residence Life, from residence hall director.

Charles A. Currie III, staff assistant I in Plastics Engineering Nanomanufacturing, from equipment engineer with Microsemi Microwave Products.

Theresa Fingerhut, trainer in Information Technology, from adjunct faculty at Middlesex Community College.

Elizabeth F. Goodrow, clinical nutrition coordinator in Health and Clinical Services in the Research Foundation, from clinical nutrition coordinator at Tufts University.

Katherine M. Hastings, director of the Lowell Fund in University Advancement, from director of development for the West End House Boys and Girls Club in Boston.

Gerald Ledoux, maintainer I in Residence Operations.

Kathryn Lee, assistant director of the Lowell Fund in University Advancement, from UML class of 2003.

Michael Puglisi, resident director in Residence Life, from residence director at St. John's Fischer College.

Koy Sam, parent liaison in the Research Foundation, from social services representative in the Department of Human Services in Washington, D.C.

Beatriz Sierra, parent liaison in the GearUp Project in the Research Foundation, from GearUp in the Lowell area.

Dan Toomey, project manager in the Research Foundation, from 03 to 01.

First Tripathy Fellows Chosen

Two graduate students have won the first Tripathy Endowed Memorial Summer Graduate Fellowships to complete their final year of research towards a Ph.D. The fellowship, awarded for outstanding research in the areas of materials science and polymer science, provides a summer stipend and additional travel funds to participate in national meetings during the following year.

Xian Yan Wang is pursuing research on electrospinning. She was also named the outstanding graduate student for the College of Arts and Sciences and for UMass Lowell.

Hee Joon Ahn works on LED research and says, "This fellowship is a great honor."

The fellowship is awarded in memory of

the late Sukant Tripathy, University Professor and a former provost. He was an internationally recognized leader in the materials sciences, a dynamic research collaborator, and founder and director of the Center for Advanced Materials.



▲ Xian Yan Wang and Hee Joon Ahn, third and fifth from left, are the first Tripathy Fellows, pursuing research in the materials and polymer sciences. With them are members of the fellowship awards committee, associated with the Center for Advanced Materials, that was founded by the late Sukant Tripathy. They are, from left, Dr. Ashok Cholli, Prof. Daniel Sandman, Prof. Jayant Kumar, Assoc. Prof. James Whitten and Susan Thompson Tripathy.

Note Worthy

Profs. Arthur Mittler and David Pullen of the Physics Department have been inducted into the Massachusetts Hall of Fame for Science Educators in recognition of their long and distinguished service in science education.

The two professors direct the Lowell Regional Physics Alliance, a forum for high school and college physics teachers.

The Hall of Fame, founded in 1992, has 74 members.

Joel Tickner, project director of the Lowell Center for Sustainable Production, has edited a book, titled *Precaution, Environmental Science, and Preventive Public Policy*, a collection of 25 papers resulting from the 2001 International Summit on Science and the Precautionary Principle.

The precautionary principle is a scientific theory that promotes prevention in cases of identifiable risk, even without hard-and-fast proof.

This summer, Tickner briefed the U.S. House of Representatives on the issue, focusing on the need to enact measures to protect the public in areas such as genetically modified organisms, climate change and toxic substances.

Carlos Eduardo Siqueira, a senior researcher and assistant professor in Work Environment, has published a book, titled *Dependent Convergence: The Struggle to Control Petrochemical Hazards in Brazil and the United States*.

The research reported in the book studies the process of the importation of petrochemical hazards and its controls by Cetrel, the waste management company for the Camaçari Petrochemical Complex (in Bahia, Brazil) from the perspective of the importers.

Siqueira also is involved in a project, Promoting Health and Safe Employment in Healthcare, that addresses health disparities among employees in health care facilities in the Merrimack Valley.

Seven high school teachers and three college faculty members, including **Prof. Ken Levasseur** and **Assoc. Prof. Marvin Stick** of the Mathematical Sciences Department, took part this summer in Northern Essex Community College's Math Applications Shaping Tomorrow (MAST) program.

The 10 educators worked with business and industry partners to help connect classrooms with math skills used in the workplace. They visited the work sites for three days, observing the way businesses used math, and attended workshops at Northern Essex concerning the latest technological teaching tools.

Levasseur visited Formatech, while Stick observed operations at Wal-Mart.

Michael Gigliotti, director of the Valyi Institute for Plastic Forming, was inducted into the Plastics Industry's Hall of Fame recently at the International Plastics Exposition in Chicago.

Gigliotti worked closely with UMass Lowell in establishing the Institute and also in the transfer of Emery Valyi's patents to the University.

In recognition of his outreach initiatives and research on the subject of Alzheimer's disease, **Prof. Tom Shea** of the Biological Sciences Department has been elected to the board of directors of the Family Community, a regional support organization for victims and families affected by Alzheimer's disease.

In connection with this work, Shea, in collaboration with **Prof. Eugene Rogers** of the Health and Clinical Sciences Department, conducted a workshop in Marlboro recently at the annual conference for professionals and health care workers hosted by the Massachusetts Alzheimer's Association.

The Cotton Dust Papers, written by **Prof. Charles Levenstein, Gregory DeLaurier** and **Mary Lee Dunn** of the Work Environment Department, has been included in a list of labor's influential books from 1870 to the present.

The list of 63 books was compiled by Assoc. Prof. Robert Weir of Bay Path College on the basis of responses from labor historians to a query that appeared in a trade publication.

Economic strategies proposed by retired **Prof. Michael Best** have been embraced by two different sources in the United Kingdom.

Gordon Brown, Chancellor of the Exchequer for Great Britain, has written to Best, asking him to confer with two researchers concerning economic issues in the UK.

A second letter, from the Northern Ireland Economic Council, forwarded a copy of the *Occasional Paper* that was commissioned to review one of Best's monographs. That paper said, "The Council believes that Best's work provides an innovative framework around which an economic strategy can be built."

Professor Jim Coates of the Art Department was featured this summer in an art exhibition, "Elements of Nature: Selected Works by New England Sculptors," at the Concord Art Association in Concord.

Christine Brown, director of the UMass Lowell Center for the Arts, has been selected as one of 20 "international buyers" to attend Contact East 2003, Atlantic Canada's Performing Arts Trade show in St. John's, Newfoundland and Labrador in September. Contact East features 42 performing arts showcases, educational panels and networking sessions. The showcase is described as "One phenomenal weekend of superb theatre, music and dance in the oldest, and friendliest, city in North America."

The Journal of Occupational Health has accepted an article by a research group from the Center for Women and Work. **Profs. Meg Bond**, psychology, **Laura Punnett**, work environment, and **Jean Pyle**, emeritus of regional economic and social development, collaborated with graduate student Dianne Cazeca, work environment, and Manuela Cooperman, a former graduate student, to author "Gendered Work Conditions, Health and Work Outcomes."

The team's study examined the perceived impact of so-called gendered work conditions and employees' perceptions of factors such as job satisfaction and physical health. Subjects included a cross section of non-faculty employees from a range of universities. The study was supported by funds from the Committee of Federated Centers and Institutes at UMass Lowell.

Skinner Named NACDA Northeast Region Athletic Director of the Year

At the end of one of the most successful years in UMass Lowell athletics history, Director of Athletics Dana Skinner was named the 2003 Northeast Region Athletic Director of the Year by the National Association of Collegiate Directors of Athletics (NACDA).

"This award is a recognition of the collective efforts of some very talented coaches, staff members and student-athletes," said Skinner. "I'm honored to accept this award on their behalf." Regional recipients were recognized at NACDA's Annual

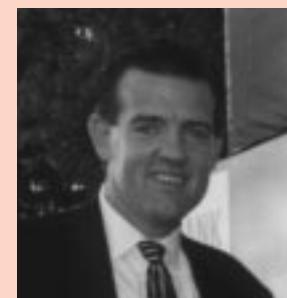
Convention in Orlando, Fla., in June.

At the end of the academic year, the campus was ranked 17th nationally — and No. 1 in the Northeast Division — among the 180 NCAA Division II colleges in the NACDA Directors Cup standings. During the 2002-2003 academic year, eight of Lowell's teams advanced to NCAA tournaments.

The Athletic Director of the Year award is presented in recognition of administrative excellence on their campus and in their community. Recipients are chosen by selection

committees composed of institutional presidents, current and former athletic directors and conference commissioners and selected athletics administrators.

Skinner spearheaded the effort in which the Lowell campus gained admittance into the Northeast 10 Conference in the fall of 2000. Since its inception in 1995, Skinner has served on



▲ In June, Dana Skinner was named 2003 Northeast Region Athletic Director of the Year by the National Association of Collegiate Directors of Athletics.

the Lowell Arena and Stadium Commission that oversaw development of the Tsongas Arena and LeLacheur Park. In recent years he has also overseen construction of new team locker rooms, office space for coaches, a new softball complex, a soccer stadium and an outdoor complex for football, field hockey, and track and field.

Calendar of Events

Friday and Saturday, Sept. 19 and 20

Book Sale, paperbacks will be sold outside the library, subject specific books will be sold on the mezzanine, 10:30 a.m. to 4 p.m., O'Leary Library. For information, call Donna Stanford (978) 934-4579.

Saturday, Sept. 20

Parker Lecture Series, "Shakespeare Behind Bars," a talk by Jean Troutine, author of *Shakespeare Behind Bars: The Power of Drama in a Women's Prison*, 2 p.m., Pollard Memorial Library, 401 Merrimack Street. For information or a schedule, contact Paul Marion (978) 934-3107 or Paul_Marion@uml.edu.

Wednesday, Sept. 24

Lecture, "Democracy and the Politics of War," presented by Noam Chomsky, MIT linguistics prof., 2 p.m., O'Leary 222. For more information, call (978) 934-4304.

Thursday, Sept. 25

Talk, "Robot-Assisted Search and Rescue at the World Trade Center," presented by Mark Micire, American Standard Robots, 3 to 4 p.m., Olsen 311. For more information, contact Holly Yanco at (978) 934-3642.

Monday, Sept. 29

Seminar Series, "The Stock Market and an Innovative Economy: What's the Connection?" William Lazonick, RESD, buffet lunch served, noon to 2 p.m. O'Leary Library, Room M, 5th floor. For information, call RESD (978) 934-2900.

Sunday, Oct. 5

Performance, Discovery Series, "Shangri-La Acrobats," 2 and 4 p.m. Great for all ages. Tickets \$10, group discounts available. Durgin Concert Hall. For information or tickets, call the Center for the Arts (978) 934-4444.

Monday, Oct. 6

Seminar Series, "Technology, Development & Globalization: Challenges for Public Policy in Sub-Saharan Africa," Peninah Ogada, Northeastern University, buffet lunch served, noon to 2 p.m., O'Leary Library, Room M, 5th floor. For information, call RESD (978) 934-2900.

Friday, Oct. 10

Performance, STARTS (Student & Teacher Arts) program, "Aesop's Fables," performing arts for grades K-3, 9:30 and 11 a.m. Tickets: \$5. Durgin Concert Hall. For information and reservations, call the STARTS hotline (978) 934-4452.

Wednesday, Oct. 15

Seminar Series, "Teens at Risk: Reducing Workplace Hazards," Joan Parker (Parkwood Consulting), David Wegman & John Wooding (UML), buffet lunch served, noon to 2 p.m., O'Leary Library, Room M, 5th floor. For information, call RESD (978) 934-2900.

Friday, Oct. 17

Performance, STARTS program, "The Summer of the Swans," performing arts for grades 3-6, 9:30 and 11:30 a.m. Tickets: \$5. Durgin Concert Hall. For information and reservations, call the STARTS hotline (978) 934-4452.

Monday, Oct. 20

Seminar Series, "Policy, Practice, and System Reform: Youth in Transition," Talmira Hill, T. L. Hill Group, buffet lunch served, noon to 2 p.m. O'Leary Library, Room M, 5th floor. For information, call RESD (978) 934-2900.

Tuesday, Oct. 21

Performance, STARTS program, "The Mystery of King Tut," performing arts for grades 4-6, 9:30 and 11:30 a.m. Tickets: \$5. Durgin Concert Hall. For information and reservations, call the STARTS hotline (978) 934-4452.

Sunday, Oct. 26

Sunday, Oct. 26

Open House, 9 a.m., Tsongas Arena.

Monday, Oct. 27

Seminar Series, "Lowell's Industrial Regeneration: Dynamic Technological Capabilities," Michael Best, College of Management, UML, buffet lunch served, noon to 2 p.m., O'Leary Library, Room M, 5th floor. For information, call RESD (978) 934-2900.

Sunday, Nov. 2

Performance, Discovery Series, "The Star Keeper," 2 and 4 p.m. Best for ages 4-10. Tickets \$10, group discounts available, Durgin Concert Hall. For information or tickets, call the Center for the Arts (978) 934-4444.

Monday, Nov. 3

Performance, STARTS program, "The Star Keeper," performing arts for grades K-3, 9:30 and 11:30 a.m. Tickets: \$5. Durgin Concert Hall. For information and reservations, call the STARTS hotline (978) 934-4452.

Monday, Nov. 17

Performance, STARTS program, "FLY Dance Company," performing arts for grades 4-8, 9:30 and 11:30 a.m. Tickets: \$5. Durgin Concert Hall. For information and reservations, call the STARTS hotline (978) 934-4452.

Tuesday, Dec. 2

Performance, STARTS program, "Tikki Tikki Tembo," performing arts for grades K-3, 9:30 and 11:30 a.m. Tickets: \$5. Durgin Concert Hall. For information and reservations, call the STARTS hotline (978) 934-4452.

Sunday, Dec. 7

Performance, Discovery Series, "The Gizmo Guys," great for all ages, 2 and 4 p.m. Tickets \$10, group discounts available, Durgin Concert Hall. For information or tickets, call the Center for the Arts (978) 934-4444.

Tuesday and Wednesday, Dec. 9 and 10

Performance, STARTS program, "Laura Ingalls Wilder: Growing Up on the Prairie," performing arts for grades 2-5, shows at 9:30 and 11:30 a.m. Tickets: \$5. Durgin Concert Hall. For information and reservations, call the STARTS hotline (978) 934-4452.

Medical Residents Train at Weed Hall

A dozen medical residents from Lawrence Family Health Center received special training at Weed Hall this summer. Their course, presented jointly by the U.S. Centers for Disease Control and the Massachusetts Department of Public Health, focused on the prevention of HIV and sexually transmitted diseases.

The use of Weed Hall labs was arranged by the National Laboratory Training Network (NLTN) and Dr. Kathleen Doyle, professor of Health and Clinical Sciences. The NLTN, a federally supported program that provides resources and coordinates use of public health laboratories throughout the Northeast, was represented by Elizabeth G. Szymczak, northeast manager for NLTN.



▲ From left, Elizabeth G. Szymczak, northeast director of the National Laboratory Training Network, checks the microscopes used in a special summer training program conducted for area doctors with Donna Rogers, professional technician and Dr. Kathleen Doyle, professor, both from the Department of Health and Clinical Sciences.

Did you know...

that nearly a dozen Kerouac bobblehead dolls were up for auction on eBay the morning after the recent Lowell Spinners' giveaway?

For Extra Credit...

How much are collectors paying for the dolls? Kerouac bobbleheads have fetched upwards of \$250 on eBay.



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